

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/054257 A1**

(51) International Patent Classification<sup>7</sup>: C07F 9/00, of Catalonia, Avgda, Paisos Catalan, E-43007 Tarragona  
A61K 31/28, A61P 5/00, 25/00 (ES).

(21) International Application Number:  
PCT/GB2004/005080

(74) Agents: CHAPMAN, Paul, William et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

(22) International Filing Date: 6 December 2004 (06.12.2004)

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

Published:

— with international search report

(30) Priority Data:  
0328157.3 4 December 2003 (04.12.2003) GB

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (*for all designated States except US*): IMPERIAL COLLEGE INNOVATIONS LIMITED [GB/GB]; Electrical and Electronic Engineering Building, Imperial College, Level 12, Exhibition Road, London SW7 2AZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): WOSCHOLSKI, Rudiger [DE/GB]; Imperial College Innovations Limited, Electrical and Electronic Engineering Building, Imperial College, Level 12, Exhibition Road, London SW7 2AZ (GB). ROSIVATZ, Erika [AT/GB]; Imperial College Innovations Limited, Electrical and Electronic Engineering Building, Imperial College, Level 12, Exhibition Road, London SW7 2AZ (GB). VILAR, Ramon [ES/ES]; Icrea Research Professor, Iciq - Institute of Chemical Research

WO 2005/054257 A1

(54) Title: VANADIUM COMPOUNDS AS INHIBITORS OF PHOSPHATASES

(57) Abstract: Novel Vanadium compounds are described as well as their use as inhibitors of phosphatases, particularly inositol phosphatases. The use of the compound in the treatment of neurodegenerative diseases is also described.